## LISTE DE SEQUENCES

<110> AVENTIS PHARMA SA
<120> Procédé d'obtention de lignées de mastocytes
<130> MASTOCYTES
<140>
<141>
<160> 34
<170> PatentIn Ver. 2.1
<210> 1
<211> 3952
<212> ADN
<213> Sus scrofa
<220> <221> CDS
<222> (118)(3036)
<400> 1
attgggccga cgtcgcatgc tcccggccgg ccgccatntc ngccgcggga aattcgattg 60
gaatteeteg agageaggaa egtggaaagg ageteeggte ecagageage eacegeg 117
gaatteeteg agageaggaa egtggaaagg ageteeggee eeagageage easegeg
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc 165
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc  Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu  15
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc  Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu  1 5 10 15
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc  Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu  1 5 10 15  ttg ctt cgc gtc cag aca ggc tct tct cag cca tct gtg agt cca gag 213
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc  Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu  1 5 10 15  ttg ctt cgc gtc cag aca ggc tct tct cag cca tct gtg agt cca gag  Leu Leu Arg Val Gln Thr Gly Ser Ser Gln Pro Ser Val Ser Pro Glu
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc  Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu  1 5 10 15  ttg ctt cgc gtc cag aca ggc tct tct cag cca tct gtg agt cca gag 213
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc  Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu  1 5 10 15  ttg ctt cgc gtc cag aca ggc tct tct cag cca tct gtg agt cca gag  Leu Leu Arg Val Gln Thr Gly Ser Ser Gln Pro Ser Val Ser Pro Glu  20 25 30
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc  Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu  1 5 10 15  ttg ctt cgc gtc cag aca ggc tct tct cag cca tct gtg agt cca gag  Leu Leu Arg Val Gln Thr Gly Ser Ser Gln Pro Ser Val Ser Pro Glu  20 25 30  gaa ctg tct cca cca tcc atc cag cca gca aaa tca gag tta atc gtc 261
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc  Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu  1 5 10 15  ttg ctt cgc gtc cag aca ggc tct tct cag cca tct gtg agt cca gag  Leu Leu Arg Val Gln Thr Gly Ser Ser Gln Pro Ser Val Ser Pro Glu  20 25 30  gaa ctg tct cca cca tcc atc cag cca gca aaa tca gag tta atc gtc  Glu Leu Ser Pro Pro Ser Ile Gln Pro Ala Lys Ser Glu Leu Ile Val
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc  Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu  1 5 10 15  ttg ctt cgc gtc cag aca ggc tct tct cag cca tct gtg agt cca gag  Leu Leu Arg Val Gln Thr Gly Ser Ser Gln Pro Ser Val Ser Pro Glu  20 25 30  gaa ctg tct cca cca tcc atc cag cca gca aaa tca gag tta atc gtc  Glu Leu Ser Pro Pro Ser Ile Gln Pro Ala Lys Ser Glu Leu Ile Val
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc  Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu  1 5 10 15  ttg ctt cgc gtc cag aca ggc tct tct cag cca tct gtg agt cca gag  Leu Leu Arg Val Gln Thr Gly Ser Ser Gln Pro Ser Val Ser Pro Glu  20 25 30  gaa ctg tct cca cca tcc atc cag cca gca aaa tca gag tta atc gtc  Glu Leu Ser Pro Pro Ser Ile Gln Pro Ala Lys Ser Glu Leu Ile Val  35 40 45  agt gct ggc gat gag att agg ctg ttc tgc acc gat cca gga tct gtc 309
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc  Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu  1 5 10 15  ttg ctt cgc gtc cag aca ggc tct tct cag cca tct gtg agt cca gag  Leu Leu Arg Val Gln Thr Gly Ser Ser Gln Pro Ser Val Ser Pro Glu  20 25 30  gaa ctg tct cca cca tcc atc cag cca gca aaa tca gag tta atc gtc  Glu Leu Ser Pro Pro Ser Ile Gln Pro Ala Lys Ser Glu Leu Ile Val  35 40 45  agt gct ggc gat gag att agg ctg ttc tgc acc gat cca gga tct gtc  Ser Ala Gly Asp Glu Ile Arg Leu Phe Cys Thr Asp Pro Gly Ser Val
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc  Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu  1 5 10 15  ttg ctt cgc gtc cag aca ggc tct tct cag cca tct gtg agt cca gag  Leu Leu Arg Val Gln Thr Gly Ser Ser Gln Pro Ser Val Ser Pro Glu  20 25 30  gaa ctg tct cca cca tcc atc cag cca gca aaa tca gag tta atc gtc  Glu Leu Ser Pro Pro Ser Ile Gln Pro Ala Lys Ser Glu Leu Ile Val  35 40 45  agt gct ggc gat gag att agg ctg ttc tgc acc gat cca gga tct gtc 309
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc  Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu  1 5 10 15  ttg ctt cgc gtc cag aca ggc tct tct cag cca tct gtg agt cca gag  Leu Leu Arg Val Gln Thr Gly Ser Ser Gln Pro Ser Val Ser Pro Glu  20 25 30  gaa ctg tct cca cca tcc atc cag cca gca aaa tca gag tta atc gtc  Glu Leu Ser Pro Pro Ser Ile Gln Pro Ala Lys Ser Glu Leu Ile Val  35 40 45  agt gct ggc gat gag att agg ctg ttc tgc acc gat cca gga tct gtc  Ser Ala Gly Asp Glu Ile Arg Leu Phe Cys Thr Asp Pro Gly Ser Val  50 55 60
atg aga ggc gct cgc cgc gcc tgg gat ttt ctc ttc gtc ctg cag ctc  Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu  1 5 10 15  ttg ctt cgc gtc cag aca ggc tct tct cag cca tct gtg agt cca gag  Leu Leu Arg Val Gln Thr Gly Ser Ser Gln Pro Ser Val Ser Pro Glu  20 25 30  gaa ctg tct cca cca tcc atc cag cca gca aaa tca gag tta atc gtc  Glu Leu Ser Pro Pro Ser Ile Gln Pro Ala Lys Ser Glu Leu Ile Val  35 40 45  agt gct ggc gat gag att agg ctg ttc tgc acc gat cca gga tct gtc  Ser Ala Gly Asp Glu Ile Arg Leu Phe Cys Thr Asp Pro Gly Ser Val  50 55 60

gag Glu	tgg Trp	atc Ile	gtg Val	gag Glu 85	aaa Lys	gca Ala	gag Glu	gcc Ala	atg Met 90	aat Asn	aca Thr	Gly	aat Asn	tat Tyr 95	aca Thr	405
tgc Cys	acc Thr	aat Asn	gaa Glu 100	Gly	ggt Gly	tta Leu	agc Ser	agt Ser 105	tcc Ser	att Ile	tat Tyr	gtg Val	ttt Phe 110	gtt Val	aga Arg	453
gat Asp	cct Pro	gag Glu 115	aag Lys	ctt Leu	ttc Phe	ctc Leu	gtc Val 120	gac Asp	cct Pro	ccc Pro	ttg Leu	tat Tyr 125	GJA āāā	aag Lys	gag Glu	501
gac Asp	aat Asn 130	gac Asp	gcg Ala	ctg Leu	gtc Val	cgc Arg 135	tgt Cys	cct Pro	ctg Leu	acg Thr	gac Asp 140	cca Pro	gag Glu	gtg Val	acc Thr	549
aat Asn 145	tac Tyr	tcc Ser	ctc Leu	acg Thr	ggc Gly 150	tgc Cys	gag Glu	GJÀ āāā	aaa Lys	ccc Pro 155	ctt Leu	ccc Pro	aag Lys	gat Asp	ttg Leu 160	597
acc Thr	ttc Phe	gtt Val	gca Ala	gac Asp 165	ccc Pro	aag Lys	gcc Ala	ggc	atc Ile 170	acc Thr	atc Ile	aaa Lys	aat Asn	gtg Val 175	aag Lys	645
cgc Arg	gag Glu	tat Tyr	cat His 180	cgg Arg	ctg Leu	.tgt Cys	cta Leu	cac His 185	tgc Cys	tcc Ser	gcc Ala	aac Asn	cag Gln 190	GJA aaa	ggc Gly	693
aag Lys	tcc Ser	gtg Val 195	ctg Leu	tcg Ser	aag Lys	aaa Lys	ttc Phe 200	acc Thr	ctg Leu	aaa Lys	gtg Val	agg Arg 205	gca Ala	gcc Ala	atc Ile	741
aga Arg	gct Ala 210	gta Val	cct Pro	gtt Val	gtg Val	gct Ala 215	gtg Val	tcc Ser	aaa Lys	gca Ala	agc Ser 220	tac Tyr	ctt Leu	ctc Leu	agg Arg	789
gaa Glu 225	ggg Gly	gag Glu	gaa Glu	ttt Phe	gcc Ala 230	gtg Val	atg Met	tgc Cys	ttg Leu	atc Ile 235	aaa Lys	gac Asp	gtg Val	tct Ser	agt Ser 240	837
tcc . Ser	gtg Val	gac Asp	tcc Ser	atg Met 245	tgg Trp	atc Ile	agg Arg	gag Glu	aac Asn 250	agc Ser	cag Gln	act Thr	aaa Lys	gca Ala 255	cag Gln	885
gtg Val	aag Lys	agg Arg	aat Asn 260	agc Ser	tgg Trp	cat His	cag Gln	ggt Gly 265	gac Asp	ttc Phe	aat Asn	ttt Phe	ctg Leu 270	cgg	cag Gln	933

gaa Glu	agg Arg	ctg Leu 275	aca Thr	atc Ile	agc Ser	tca Ser	gca Ala 280	aga Arg	gtt Val	aat Asn	gat Asp	tct Ser 285	ggc Gly	gtg Val	ttc Phe	981
atg Met	tgt Cys 290	tac Tyr	gcc Ala	aat Asn	aat Asn	act Thr 295	ttt Phe	gga Gly	tct Ser	gca Ala	aat Asn 300	gtc Val	aca Thr	acc Thr	acc Thr	1029
tta Leu 305	gaa Glu	gta Val	gta Val	gat Asp	aaa Lys 310	gga Gly	ttc Phe	att Ile	aat Asn	atc Ile 315	ttc Phe	cct Pro	atg Met	atg Met	aat Asn 320	1077
acc Thr	act Thr	gtg Val	ttt Phe	gta Val 325	aac Asn	gat Asp	gga Gly	gag Glu	gat Asp 330	gtg Val	gat Asp	cta Leu	att Ile	gtt Val 335	gag Glu	1125
tac Tyr	gag Glu	gcg Ala	tac Tyr 340	ccc Pro	aaa Lys	cct Pro	gaa Glu	cac His 345	cga Arg	cag Gln	tgg Trp	ata Ile	tat Tyr 350	atg Met	aac Asn	1173
cgc Arg	act Thr	gcc Ala 355	act Thr	gat Asp	aag Lys	tgg Trp	gag Glu 360	gat Asp	tat Tyr	ccc Pro	aag Lys	tct Ser 365	gag Glu	aat Asn	gaa Glu	1221
agt Ser	aac Asn 370	Ile	aga Arg	ťat Tyr	gta Val	agt Ser 375	gaa Glu	ctt Leu	cac His	ttg Leu	acc Thr 380	aga Arg	tta Leu	aaa Lys	Gly ggg	1269
acc Thr 385	gaa Glu	gga Gly	ggc Gly	act Thr	tac Tyr 390	aca Thr	ttt Phe	ctc Leu	gtg Val	tcc Ser 395	aat Asn	gct Ala	gat Asp	gtc Val	aat Asn 400	1317
tct Ser	tct Ser	gtg Val	aca Thr	ttt Phe 405	aat Asn	gtt Val	tac Tyr	gtg Val	aac Asn 410	aca Thr	aaa Lys	cca Pro	gaa Glu	atc Ile 415	Leu	1365
act Thr	cat His	gac Asp	agg Arg 420	Leu	atg Met	aac Asn	ggc	atg Met 425	Leu	cag Gln	tgt Cys	gtg Val	gcg Ala 430	gca Ala	ggc Gly	1413
ttc Phe	cca Pro	gag Glu 435	Pro	acc Thr	atc Ile	gat Asp	tgg Trp 440	Tyr	ttc Phe	tgt Cys	cca Pro	ggc Gly 445	Tnr	gag Glu	cag Gln	1461
aga Arg	tgt Cys 450	Ser	gtt Val	ccc Pro	gtt Val	ggg Gly 455	Pro	gtg Val	gac Asp	gtg Val	cag Gln 460	Ile	caa Gln	aac Asn	tca Ser	1509

tct Ser 465	gta Val	tca Ser	ccg Pro	ttt Phe	gga Gly 470	aaa Lys	cta Leu	gtg Val	att Ile	cac His 475	agc Ser	tcc Ser	att Ile	gat Asp	tac Tyr 480	1557
agt Ser	gca Ala	ttc Phe	aaa Ļys	cac His 485	aac Asn	ggc	acg Thr	gtg Val	gag Glu 490	tgc Cys	agg Arg	gct Ala	tac Tyr	aac Asn 495	gat Asp	1605
gtg Val	ggc Gly	aag Lys	agt Ser 500	tct Ser	gcc Ala	ttt Phe	ttt Phe	aac Asn 505	ttt Phe	gca Ala	ttt Phe	aaa Lys	gaa Glu 510	caa Gln	atc Ile	1653
cat His	gcċ Ala	cac His 515	acc Thr	ctc Leu	ttc Phe	acg Thr	cct Pro 520	ttg Leu	ctg Leu	att Ile	ggt Gly	ttt Phe 525	gtg Val	atc Ile	gca Ala	1701
gcg Ala	ggt Gly 530	atg Met	atg Met	tgt Cys	atc Ile	atc Ile 535	gtg Val	atg Met	att Ile	ctc Leu	acc Thr 540	tat Tyr	aaa Lys	tat Tyr	cta Leu	1749
cag Gln 545	aag Lys	ccc Pro	atg Met	tat Tyr	gaa Glu 550	gta Val	cag Gln	tgg Trp	aag Lys	gtt Val 555	gtc Val	gag Glu	gag Glu	ata Ile	aat Asn 560	1797
gga Gly	aac Asn	aat Asn	tat Tyr	gtc Val 565	Tyr	ata Ile	gac Asp	cca Pro	acg Thr 570	caa Gln	ctt Leu	cct Pro	tat Tyr	gat Asp 575	cac His	1845
aaa Lys	tgg Trp	gaa Glu	ttt Phe 580	Pro	agg Arg	aac Asn	agg Arg	ctg Leu 585	agt Ser	ttt Phe	ggc Gly	aaa Lys	acc Thr 590	ttg Leu	ggt Gly	1893
gct Ala	ggc	gcc Ala 595	Phe	ggg Gly	aaa Lys	gtc Val	gtt Val 600	Glu	gcc	act Thr	gca Ala	tac Tyr 605	GIY	tta Leu	att Ile	1941
aag Lys	tca Ser 610	Asp	gcg Ala	gco Ala	atg Met	acc Thr	Val	gcc Ala	gtg Val	aag Lys	atg Met 620	Leu	aaa Lys	cca Pro	agt Ser	1989
gcc Ala 625	His	tta Lev	acg Thr	ggaa Glu	a cga a Arg 630	Glu	gcc Ala	ctg Leu	atg Met	tct Ser 635	GIU	cto Leu	aaa Lys	gtc Val	tta Leu 640	2037
agt Ser	tac	cto Lei	ggt Gly	aat Asi 64!	n His	ato Met	r aat Asr	att	gtg Val	l Asr	ctt Lev	cto Lev	ggc Gly	gcc Ala 655	tgc Cys	2085

acc att gga ggg ccc acc ctg gtc att aca gaa tat tgt tgc tat ggt 21 Thr Ile Gly Gly Pro Thr Leu Val Ile Thr Glu Tyr Cys Cys Tyr Gly 660 665 670	.33
gat ctc ctg aat ttt ttg aga cgg aaa cgt gat tcg ttt att tgc tca 21 Asp Leu Leu Asn Phe Leu Arg Arg Lys Arg Asp Ser Phe Ile Cys Ser 675 680 685	L <b>81</b>
aag cag gaa gat cac gca gaa gcg gcg ctt tat aag aac ctt ctg cat 22 Lys Gln Glu Asp His Ala Glu Ala Ala Leu Tyr Lys Asn Leu Leu His 690 695 700	229
tca aag gag tct tcc tgc agt gac agt act aac gag tac atg gac atg 2: Ser Lys Glu Ser Ser Cys Ser Asp Ser Thr Asn Glu Tyr Met Asp Met 705 710 715 720	277
aaa ccc gga gtg tct tat gtg gta cca acc aag gca gac aaa agg aga 2 Lys Pro Gly Val Ser Tyr Val Val Pro Thr Lys Ala Asp Lys Arg Arg 735	325
tct gcg aga ata ggc tca tac ata gaa cga gat gtg act cct gcc atc 2 Ser Ala Arg Ile Gly Ser Tyr Ile Glu Arg Asp Val Thr Pro Ala Ile 740 745	2373
atg gaa gat gat gag ttg gcc cta gac ctg gag gac ttg ctc agc ttt 2 Met Glu Asp Asp Glu Leu Ala Leu Asp Leu Glu Asp Leu Leu Ser Phe 755 760 765	2421
tct tac caa gtg gca aag ggc atg gcc ttc ctc gcc tcg aag aat tgt  Ser Tyr Gln Val Ala Lys Gly Met Ala Phe Leu Ala Ser Lys Asn Cys  770 775 780	2469
att cac aga gac ttg gcg gcc aga aat atc ctc ctt act cac ggo by Arg  Ile His Arg Asp Leu Ala Ala Arg Asn Ile Leu Leu Thr His Gly Arg  795 800	2517
atc aca aag att tgt gat ttt ggt cta gcc aga gac atc aag aat gat  Ile Thr Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp Ile Lys Asn Asp  815	2565
tct aat tac gtg gtc aaa gga aac gct cgg cta ccc gtg aag tgg atg Ser Asn Tyr Val Val Lys Gly Asn Ala Arg Leu Pro Val Lys Trp Met 820 825 830	2613
gca ccc gag agc att ttc aac tgt gtc tac aca ttt gaa agc gat gtc Ala Pro Glu Ser Ile Phe Asn Cys Val Tyr Thr Phe Glu Ser Asp Val  835  840  845	2661

tgg tcc tat ggg att ttt ctg tgg gag ctc ttc tct tta ggg agc agc 2709  Trp Ser Tyr Gly Ile Phe Leu Trp Glu Leu Phe Ser Leu Gly Ser Ser  850 855 860
ccc tac cct gga atg cca gtt gat tct aaa ttc tac aag atg atc aag2757Pro Tyr Pro Gly Met Pro Val Asp Ser Lys Phe Tyr Lys Met Ile Lys880865870875
gag ggt ttc cga atg ctc agt cct gag cat gca cct gcg gaa atg tat 2805  Glu Gly Phe Arg Met Leu Ser Pro Glu His Ala Pro Ala Glu Met Tyr  890 895
gac atc atg aag act tgc tgg gat gcg gat ccc ctc aaa aga cca acg 2853 Asp Ile Met Lys Thr Cys Trp Asp Ala Asp Pro Leu Lys Arg Pro Thr 900 905 910
ttt aag cag att gtg cag ctg att gag aag cag att tcg gag agc acc 2901 Phe Lys Gln Ile Val Gln Leu Ile Glu Lys Gln Ile Ser Glu Ser Thr 915 920 925
aat cac att tat tcc aac tta gcg aac tgc agc ccc cac cgg gag aac 2949 Asn His Ile Tyr Ser Asn Leu Ala Asn Cys Ser Pro His Arg Glu Asn 930 935 940
ccc gcg gtg gat cat tct gtg cgg atc aac tcc gtg ggc agc agt gcc 2997  Pro Ala Val Asp His Ser Val Arg Ile Asn Ser Val Gly Ser Ser Ala  945 950 955 960
tcc tcc acg cag ccg ctg ctt gtc cac gaa gac gtc tga agcagaatgg 3046  Ser Ser Thr Gln Pro Leu Leu Val His Glu Asp Val  965 970
gtgtccgggg tgggggtgg gggggctcct cccccacagc accggcctac tgccattctt 3106
tttggttttc ataatggtta ttttgtttcc cttcaacttg catcctactc cagggtagtg 3166
gatgeteege tgtaateete tttaegagea eaetttagtg geeaatgatt tttgteatea 3226
getgecattg agetgtatat gtteecaata geaegetage eeceattaae ggagageatt 3286
cagacttagg gaagaggagg gtaggacggg ctggacaccc caggtccttg acaagtcttc 3346
tocagtitot giocaataag igoigtaatg gittatitga goacoiggoi giogicacoi 3406
ceggteettg teateatetg taacaatatg atgatgatga tgecagaace taateeettg 3466
atgtggaaaa taggatgtta atcaaacaaa gggcagaaag aagcctgtga ctatctgggc 3526

tegagaagte aagtatttea tgetgggagt aagaegtaag eeatggaaaa atgeteteeg 3586 ggcatgaata aggctgctgg ccatgagcct ttttactcct gacctggttt ntaagtagtt 3646 tgttattagg gagctggatc ggagggaagg cttctgcctg cattttgtat atactcatct 3706 ataaattgtt catgttcaca tatttgaggg gggaaaaccc gcaaggtgta gtttctggat 3766 acaatcctgg ctcgagtctg ctgcgtgtag aaatagctga agagccagac acgtttgaag 3826 gaaacagtgc tttttttaag aaaaaaaaa aaaaaagtcg acatcgatac gcgtggtcaa 3886 teactagtga attegeggee geetgeaggt egaceanaag gagageteee aacgegtgga 3946 3952 gcaagc

<210> 2

<211> 972

<212> PRT

<213> Sus scrofa

<400> 2

Met Arg Gly Ala Arg Arg Ala Trp Asp Phe Leu Phe Val Leu Gln Leu 10 5

Leu Leu Arg Val Gln Thr Gly Ser Ser Gln Pro Ser Val Ser Pro Glu 25 20

Glu Leu Ser Pro Pro Ser Ile Gln Pro Ala Lys Ser Glu Leu Ile Val 40 35

Ser Ala Gly Asp Glu Ile Arg Leu Phe Cys Thr Asp Pro Gly Ser Val 55 50

Lys Trp Thr Phe Glu Thr Leu Gly Gln Leu Ser Glu Asn Thr His Ala 70 65

Glu Trp Ile Val Glu Lys Ala Glu Ala Met Asn Thr Gly Asn Tyr Thr 85

Cys Thr Asn Glu Gly Gly Leu Ser Ser Ser Ile Tyr Val Phe Val Arg 105 100

Asp Pro Glu Lys Leu Phe Leu Val Asp Pro Pro Leu Tyr Gly Lys Glu 125 120 115

- Asp Asn Asp Ala Leu Val Arg Cys Pro Leu Thr Asp Pro Glu Val Thr 130 135 140
- Asn Tyr Ser Leu Thr Gly Cys Glu Gly Lys Pro Leu Pro Lys Asp Leu 145 150 155 160
- Thr Phe Val Ala Asp Pro Lys Ala Gly Ile Thr Ile Lys Asn Val Lys
  165 170 175
- Arg Glu Tyr His Arg Leu Cys Leu His Cys Ser Ala Asn Gln Gly Gly 180
- Lys Ser Val Leu Ser Lys Lys Phe Thr Leu Lys Val Arg Ala Ala Ile 195 200 205
- Arg Ala Val Pro Val Val Ala Val Ser Lys Ala Ser Tyr Leu Leu Arg 210 215 220
- Glu Gly Glu Glu Phe Ala Val Met Cys Leu Ile Lys Asp Val Ser Ser 225 230 235 240
- Ser Val Asp Ser Met Trp Ile Arg Glu Asn Ser Gln Thr Lys Ala Gln 245 250 255
- Val Lys Arg Asn Ser Trp His Gln Gly Asp Phe Asn Phe Leu Arg Gln , 260 265 270
- Glu Arg Leu Thr Ile Ser Ser Ala Arg Val Asn Asp Ser Gly Val Phe 275 280 285
- Met Cys Tyr Ala Asn Asn Thr Phe Gly Ser Ala Asn Val Thr Thr Thr 290 295 300
- Leu Glu Val Val Asp Lys Gly Phe Ile Asn Ile Phe Pro Met Met Asn 305 310 315 320
- Thr Thr Val Phe Val Asn Asp Gly Glu Asp Val Asp Leu Ile Val Glu 325 330 335
- Tyr Glu Ala Tyr Pro Lys Pro Glu His Arg Gln Trp Ile Tyr Met Asn 340 345 350
- Arg Thr Ala Thr Asp Lys Trp Glu Asp Tyr Pro Lys Ser Glu Asn Glu 355 360 365
- Ser Asn Ile Arg Tyr Val Ser Glu Leu His Leu Thr Arg Leu Lys Gly 370 375 380

- Thr Glu Gly Gly Thr Tyr Thr Phe Leu Val Ser Asn Ala Asp Val Asn 385 390 395 400
- Ser Ser Val Thr Phe Asn Val Tyr Val Asn Thr Lys Pro Glu Ile Leu 405 410 415
- Thr His Asp Arg Leu Met Asn Gly Met Leu Gln Cys Val Ala Ala Gly 420 425 430
- Phe Pro Glu Pro Thr Ile Asp Trp Tyr Phe Cys Pro Gly Thr Glu Gln 435
- Arg Cys Ser Val Pro Val Gly Pro Val Asp Val Gln Ile Gln Asn Ser 450
- Ser Val Ser Pro Phe Gly Lys Leu Val Ile His Ser Ser Ile Asp Tyr 465 470 475 480
- Ser Ala Phe Lys His Asn Gly Thr Val Glu Cys Arg Ala Tyr Asn Asp 485 490 495
- Val Gly Lys Ser Ser Ala Phe Phe Asn Phe Ala Phe Lys Glu Gln Ile 500 505 510
- His Ala His Thr Leu Phe Thr Pro Leu Leu Ile Gly Phe Val Ile Ala 515 520 525
- Ala Gly Met Met Cys Ile Ile Val Met Ile Leu Thr Tyr Lys Tyr Leu 530 535 540
- Gln Lys Pro Met Tyr Glu Val Gln Trp Lys Val Val Glu Glu Ile Asn 545 550 555 560
- Gly Asn Asn Tyr Val Tyr Ile Asp Pro Thr Gln Leu Pro Tyr Asp His 565 570 575
- Lys Trp Glu Phe Pro Arg Asn Arg Leu Ser Phe Gly Lys Thr Leu Gly 580
- Ala Gly Ala Phe Gly Lys Val Val Glu Ala Thr Ala Tyr Gly Leu Ile 595 600 605
- Lys Ser Asp Ala Ala Met Thr Val Ala Val Lys Met Leu Lys Pro Ser 610 620
- Ala His Leu Thr Glu Arg Glu Ala Leu Met Ser Glu Leu Lys Val Leu 625 630 630

- Ser Tyr Leu Gly Asn His Met Asn Ile Val Asn Leu Leu Gly Ala Cys 645 650 655
- Thr Ile Gly Gly Pro Thr Leu Val Ile Thr Glu Tyr Cys Cys Tyr Gly 660 665 670
- Asp Leu Leu Asn Phe Leu Arg Arg Lys Arg Asp Ser Phe Ile Cys Ser 675 680 685
- Lys Gln Glu Asp His Ala Glu Ala Ala Leu Tyr Lys Asn Leu Leu His 690 695 700
- Ser Lys Glu Ser Ser Cys Ser Asp Ser Thr Asn Glu Tyr Met Asp Met 705 710 715 720
- Lys Pro Gly Val Ser Tyr Val Val Pro Thr Lys Ala Asp Lys Arg Arg 735
- Ser Ala Arg Ile Gly Ser Tyr Ile Glu Arg Asp Val Thr Pro Ala Ile 740 745 750
- Met Glu Asp Asp Glu Leu Ala Leu Asp Leu Glu Asp Leu Leu Ser Phe 755 760 765
- Ser Tyr Gln Val Ala Lys Gly Met Ala Phe Leu Ala Ser Lys Asn Cys 770 780
- Ile His Arg Asp Leu Ala Ala Arg Asn Ile Leu Leu Thr His Gly Arg
  785 790 795 800
- Ile Thr Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp Ile Lys Asn Asp 805 810
- Ser Asn Tyr Val Val Lys Gly Asn Ala Arg Leu Pro Val Lys Trp Met 820 825 830
- Ala Pro Glu Ser Ile Phe Asn Cys Val Tyr Thr Phe Glu Ser Asp Val 835 840 845
- Trp Ser Tyr Gly Ile Phe Leu Trp Glu Leu Phe Ser Leu Gly Ser Ser 850 855
- Pro Tyr Pro Gly Met Pro Val Asp Ser Lys Phe Tyr Lys Met Ile Lys 865 870 875
- Glu Gly Phe Arg Met Leu Ser Pro Glu His Ala Pro Ala Glu Met Tyr 885 890 895

Asp Ile Met Lys Thr Cys Trp Asp Ala Asp Pro Leu Lys Arg Pro Thr 905 900 Phe Lys Gln Ile Val Gln Leu Ile Glu Lys Gln Ile Ser Glu Ser Thr 920 915 Asn His Ile Tyr Ser Asn Leu Ala Asn Cys Ser Pro His Arg Glu Asn 940 935 930 Pro Ala Val Asp His Ser Val Arg Ile Asn Ser Val Gly Ser Ser Ala 955 950 945 Ser Ser Thr Gln Pro Leu Leu Val His Glu Asp Val 970 965 <210> 3 <211> 8 <212> PRT <213> Sus scrofa <400> 3 Pro Leu Leu Val His Glu Asp Val 5 1 <210> 4 <211> 936 <212> ADN <213> Sus scrofa <220> <221> CDS <222> (1)..(936) <400> 4 atg gcc gcg ctg ctc ctg ggc gcg gtg atg ctg gtc ctt cag ctc cag Met Ala Ala Leu Leu Gly Ala Val Met Leu Val Leu Gln Leu Gln 10 ctg gtg cct tgc cgc ccc gcc atg ccc ggg gcc ggg ccg agc cag cag Leu Val Pro Cys Arg Pro Ala Met Pro Gly Ala Gly Pro Ser Gln Gln 30 20 gag ctt gtg cgg aaa gcg gcg acc ctc cag gat gag gtc cgg gac agc 144 Glu Leu Val Arg Lys Ala Ala Thr Leu Gln Asp Glu Val Arg Asp Ser

			35					40									
	gcg Ala	gcc Ala 50	ccc Pro	aac Asn	Gly	tcc Ser	gtc Val 55	cag Gln	cag Gln	ctg Leu	ccg Pro	cag Gln 60	acc Thr	atc Ile	atc Ile	atc Ile	192
	ggc Gly 65	gtg Val	cgc Arg	aag Lys	ggc	ggg Gly 70	acc Thr	cgc Arg	gcg Ala	ctg Leu	ctg Leu 75	gag Glu	atg Met	ctc Leu	agc Ser	ctg Leu 80	240
	cat His	ccc Pro	gac Asp	gtg Val	gct Ala 85	gct Ala	gcg Ala	gag Glu	aac Asn	gag Glu 90	gtg Val	cac His	ttc Phe	ttc Phe	gac Asp 95	tgg Trp	288
)	gag Glu	gag Glu	cat His	tac Tyr 100	agc Ser	caa Gln	ggc Gly	ctg Leu	gac Asp 105	tgg Trp	tac Tyr	ctc Leu	agc Ser	cag Gln 110	1100	ccc Pro	336
	ttc Phe	tcc Ser	tac Tyr 115	Pro	cac His	cag Gln	ctc Leu	acg Thr 120	gtt Val	gaa Glu	aag Lys	acc Thr	ccc Pro 125	gcg Ala	tac Tyr	ttc Phe	384
	acg Thr	tcg Ser 130	Pro	aaa Lys	gtg Val	cct Pro	gag Glu 135	cgg Arg	gtc Val	cac His	cgc Arg	atg Met	. ASII	ccg	tcc Ser	atc Ile	432
	cgg Arg 145	Lev	ctg Leu	ctc Leu	atc Ile	ctg Leu 150	Arg	gac Asp	ccg Pro	tcg Ser	gag Glu 155	Arg	gtg Val	ctg Lev	j tco 1 Ser	gac Asp 160	480
)	tac Tyr	aco Thi	caa Glr	ıgtg ıVal	ttc Phe 165	Tyr	aac Asn	cac His	gtg Val	cag Gln 170	r ràs	g cac	aag Lys	cco	tac Ty:	c ccg c Pro	528
	tco Ser	ato	c gaç e Glu	g gag ı Glu 180	Phe	: ctg : Lev	g gtg ı Val	g cgc Arg	gac J Asi 185	CT?	c cgo	c cto g Īe	c aac ı Āsr	gte vai 19	1 110,	c tac ō Týr	576
	aaç Lys	g gce	c cto a Leo 19!	ı Asr	c cga	ago g Sei	c cto	tac 1 Ty1 200	c His	gtg va:	g cad	c ate	g cag t Glr 20!	I AS	c tgg	g ctg p Leu	624
	cg:	c tt g Ph 21	e Ph	c ccg	g cto	g cgo	c cgc g Arg 21	g Ile	c cae	c ato	c gt e Va	g ga 1 As 22	p GI	c ga y As	c cg p Ar	c ctc g Leu	672
	at Il	c ag e Ar	g ga g As	c cct	t tti	t cc	t gag o Gli	g ate	c ca e Gl:	g aa n Ly	g gt s Va	c ga 1 Gl	g ag u Ar	g tt g Ph	c ct e Le	g atg u Met	720

ggc ttt tac tgc ctg cgg gac ggc cgg gac cgc tgc tta cat gag 816 Gly Phe Tyr Cys Leu Arg Asp Gly Gly Arg Asp Arg Cys Leu His Glu 260 265 270

tcc aaa ggc cgg gcg cac ccc cag atc gac ccc aaa ctc ctc aat aaa 864 Ser Lys Gly Arg Ala His Pro Gln Ile Asp Pro Lys Leu Leu Asn Lys 275 280 285

ctg cac gaa tat ttt cat gag cca aat aag aaa ttt ttc gag ctt gtg 912 Leu His Glu Tyr Phe His Glu Pro Asn Lys Lys Phe Phe Glu Leu Val 290 295 300

ggc aga aca ttt gac tgg cac taa

Gly Arg Thr Phe Asp Trp His

305

<210> 5 <211> 311 <212> PRT

<213> Sus scrofa

<400> 5
Met Ala Ala Leu Leu Cly Ala Val Met Leu Val Leu Gln Leu Gln
1 10 15

Leu Val Pro Cys Arg Pro Ala Met Pro Gly Ala Gly Pro Ser Gln Gln 20 25 30

Glu Leu Val Arg Lys Ala Ala Thr Leu Ğln Asp Ğlu Val Arg Asp Ser 35 40 45

Ala Ala Pro Asn Gly Ser Val Gln Gln Leu Pro Gln Thr Ile Ile Ile 50 55 60

Gly Val Arg Lys Gly Gly Thr Arg Ala Leu Leu Glu Met Leu Ser Leu 65 70 75 80

His Pro Asp Val Ala Ala Ala Glu Asn Glu Val His Phe Phe Asp Trp
85 90 95

Glu Glu His Tyr Ser Gln Gly Leu Asp Trp Tyr Leu Ser Gln Met Pro

110

Phe Ser Tyr Pro His Gln Leu Thr Val Glu Lys Thr Pro Ala Tyr Phe 115 120 125

Thr Ser Pro Lys Val Pro Glu Arg Val His Arg Met Asn Pro Ser Ile 130 135 140

Arg Leu Leu Leu Ile Leu Arg Asp Pro Ser Glu Arg Val Leu Ser Asp 145 150 155 160

Tyr Thr Gln Val Phe Tyr Asn His Val Gln Lys His Lys Pro Tyr Pro 165 170 175

Ser Ile Glu Glu Phe Leu Val Arg Asp Gly Arg Leu Asn Val Asp Tyr 180

Lys Ala Leu Asn Arg Ser Leu Tyr His Val His Met Gln Asn Trp Leu 195 200 205

Arg Phe Phe Pro Leu Arg Ile His Ile Val Asp Gly Asp Arg Leu 210 215 220

Ile Arg Asp Pro Phe Pro Glu Ile Gln Lys Val Glu Arg Phe Leu Met 225 230 235 240

Leu Ser Pro Gln Ile Asn Ala Ser Asn Phe Tyr Phe Asn Lys Thr Lys 255

Gly Phe Tyr Cys Leu Arg Asp Gly Gly Arg Asp Arg Cys Leu His Glu 260 265

Ser Lys Gly Arg Ala His Pro Gln Ile Asp Pro Lys Leu Leu Asn Lys 275 280 285

Leu His Glu Tyr Phe His Glu Pro Asn Lys Lys Phē Phē Glü Leu Val 290 295 300

Gly Arg Thr Phe Asp Trp His

<210> 6

<211> 1236

<212> ADN

<213> Sus scrofa

<220> <221>		S																	
<222>			1236	5)															
<400> atg 0 Met A	egg Arg	cgg Arg	cgg Arg	Arg	e g g A	ıct (	ggc	agc Ser	agg Arg		cc and 1	atg Met	gtt Val	gag Glu	cgc Arg	gcc Ala 15	age Se:	e r	48
aag t Lys I	ttc Phe	gtg Val	ctg Leu 20	Va	c 9	gtg /al	gcg Ala	ggc Gly	tcg Ser 25	7	cg la	tgc Cys	ttc Phe	atg Met	ctc Leu 30	atc Ile	ct Le	c u	96
tac (	cag Gln	tac Tyr 35	Ala	gg gg	у J	ccg Pro	G1y ggg	ctg Leu 40	ago Ser	. C	tg eu	ggc Gly	gcg Ala	ccc Pro 45	ggc	ggc	cg Ar	c g	144
gcg Ala	ccg Pro 50	ccc	gac Asp	ga As	.c (	ctg Leu	gac Asp 55	ctc Leu	tto Phe	c c	ro	acg Thr	ccc Pro	1100	ccg Pro	cac	ta Ty	r	192
gag Glu 65	aag Lys	aag Lys	tac Ty	c ta	ic /r	ttc Phe 70	ccg Pro	gtg Val	r cg	g G	gag Slu	ctg Leu 75	. GIC	g cgc	tcg Ser	cto Lev	g Ca n Hi	ic Is	240
ttc Phe	gac Asp	ato Met	g aag	s G	gc B5	gac Asp	gac Asp	gto Val	g at L Il	a g e V	gtc Val 90	ttc Phe	: ttg	g cac ı His	ato	caç e Gli 9!	gaa n Ly 5	aa ys	288
acg Thr	ggc Gly	gg Gl	c ac y Th 10	r T	cc hr	ttc Phe	ggc	cg'	t ca g Hi 10	s.	ctc Leu	gto Val	g cag	g aad n Asi	gte n Val		сс g L	tc eu	336
gag Glu	gto Val	g cc L Pr 11	о Су	c g s A	ac .sp	tgc Cys	cgg	g cc g Pr 12	o G1	.Y	cag Gln	aaq Ly:	g aa s Ly	g tgo s Cy: 12		c tg r Cy	c t s T	ac 'yr	384
cgg Arg	cco Pro	o As	ic cç sn Ar	gc c	gc rg	gag Glu	aco Th:	r Tr	g ct p Le	cc eu	ţto Phe	tc Se	c cg r Ar 14	c tt g Ph	c tc e Se	c ac	g g r G	gc	432
tgg Trp 145	Se	c t <u>c</u> r Cy	gc gg	ga d ly I	ctg Seu	cac His	s Al	c ga a As	ic to	gg rp	aco Thi	c ga r Gl 15	u no	c ac	ec aa ar As	ic to	gc g ys 7	gtg /al 160	480
cco Pro	o Gl	rc gt	tg C	eu i	gac Asp 165	Ar	c cg g Ar	c ga	ac c sp P	cc ro	gc Al	a n.	g ci .a L	tg co eu Ar	gc ac		cc a ro 2 75	agg Arg	528

aag Lys	ttc Phe	tac Tyr	tac Tyr 180	atc Ile	acc Thr	ctg Leu	ctg Leu	cga Arg 185	gac	cc Pr	c g	tg f	tcc Ser	cgc Arg 190	tac Tyr	· L		576
agt Ser	gag Glu	tgg Trp 195	cgg Arg	cat His	gta Val	cag Gln	cgg Arg 200	Gly	gco	c ac	ca t	gg	aag Lys 205	acg Thr	tcg Sei	. I	etg Leu	624
cac His	atg Met 210	tgt Cys	gac Asp	ggg	cgc Arg	acg Thr 215	ccc	acc	cc Pr	t ga	`	gag Glu 220	ctg Leu	cca Pro	cc. Pr	c t	tgc Cys	672
tac Tyr 225	gag Glu	ggc Gly	acg Thr	gac Asp	tgg Trp 230	Ser	ggc Gly	tgo Cys	ac Th	ב ב	tg ( eu (	cag Gln	gag Glu	tto Phe	at Me	g :	gac Asp 240	720
tgc Cys	ccc Pro	tac Ty:	aac Ası	c cto n Lev 245	ı Ala	: aat a Ası	aac n Asr	c cgo	c ca g Gl 25	.11 V	tg al	cga Arg	atg Met	cto Lei	g gc 1 Al 25	c a 5	gac Asp	768
ctg Leu	ago Ser	ct:	g gt ı Va 26	l Gl	c tgo y Cys	ta Ty:	c aac	c ct n Le 26	u se	c ter E	tc Phe	atc Ile	Pro	ga Gl: 27		.Y	aag Lys	816
cgg Arg	tco Sei	ca Gl: 27	n Le	g ct u Le	g ct	g gá u Gl	a ag u Se 28	r Al	c aa a Ly	ag a ys I	aag Lys	aac Asn	cto Let 28!		g gg	jc Ly	atg Met	864
gco	tto a Pho	e Ph	c gg e Gl	c ct y Le	g ác u Th	c ga r Gl 29	g tt u Ph 5	c ca e Gl	g c	gc :	aag Lys	acg Thr	. 01.	g ta n Ty	c c	tg eu	ttc Phe	912
gaş Gli 30	u Ar	g ac g Th	eg tt nr Ph	c aa ne As	ıc ct sn Le 31	u L)	g tt s Pl	c at ne II	c c Le A	rg	cct Pro 315	FIIC	c at e Me	g cā	ig t In T	ac yr	aac Asn 320	960
ag Se	c ac r Th	g co r Al	ga go cg Ai	la G	gt gg Ly GI 25	ly Va	g ga al G	ag gʻ Lu Va	al c	gt 30	gag Glu	ga As	c ac	c at	cc c le A	gg .rg .35	cgc Arg	1008
at Il	t ga e Gl	ıg go .u G	lu L	tc a eu A	ac ga sn A	ac c sp L	tg go eu A	sp M	tg ( et ( 45	cag Gln	ctg Lev	j ta 1 Ty	c ga		ac g yr <i>1</i> 50	Ala ICC	agg Arg	1056
ga As	ic ct	eu P	tc c he G 55	ag c ln G	ag c ln A	gc t rg T	yr G	ag t ln T 60	ac i	aag Lys	cgg	g ca g Gl		tg g eu G 65	ag d	cgo Aro	c cgg g Arg	1104

cag cag cgc ctc cgg agc cgc gag gag cgc ctg ctg cac cgg gcc aag Gln Gln Arg Leu Arg Ser Arg Glu Glu Arg Leu Leu His Arg Ala Lys gag gcg cca cct cgg ggg gac acc gag gag ccg ggc cga gtg ccc act Glu Ala Pro Pro Arg Gly Asp Thr Glu Glu Pro Gly Arg Val Pro Thr gag gac tac atg agc cac atc atc gag aag tgg tag Glu Asp Tyr Met Ser His Ile Ile Glu Lys Trp <210> 7 <211> 411 <212> PRT <213> Sus scrofa <400> 7 Met Arg Arg Arg Ala Gly Ser Arg Thr Met Val Glu Arg Ala Ser Lys Phe Val Leu Val Val Ala Gly Ser Ala Cys Phe Met Leu Ile Leu Tyr Gln Tyr Ala Gly Pro Gly Leu Ser Leu Gly Ala Pro Gly Gly Arg Ala Pro Pro Asp Asp Leu Asp Leu Phe Pro Thr Pro Asp Pro His Tyr Glu Lys Lys Tyr Tyr Phe Pro Val Arg Glu Leu Glu Arg Ser Leu His Phe Asp Met Lys Gly Asp Asp Val Ile Val Phe Leu His Ile Gln Lys Thr Gly Gly Thr Thr Phe Gly Arg His Leu Val Gln Asn Val Arg Leu Glu Val Pro Cys Asp Cys Arg Pro Gly Gln Lys Lys Cys Thr Cys Tyr Arg Pro Asn Arg Arg Glu Thr Trp Leu Phe Ser Arg Phe Ser Thr Gly Trp Ser Cys Gly Leu His Ala Asp Trp Thr Glu Leu Thr Asn Cys Val

Pro Gly Val Leu Asp Arg Arg Asp Pro Ala Ala Leu Arg Thr Pro Arg 

Lys Phe Tyr Tyr Ile Thr Leu Leu Arg Asp Pro Val Ser Arg Tyr Leu 

Ser Glu Trp Arg His Val Gln Arg Gly Ala Thr Trp Lys Thr Ser Leu 

His Met Cys Asp Gly Arg Thr Pro Thr Pro Glu Glu Leu Pro Pro Cys 

Tyr Glu Gly Thr Asp Trp Ser Gly Cys Thr Leu Gln Glu Phe Met Asp 

Cys Pro Tyr Asn Leu Ala Asn Asn Arg Gln Val Arg Met Leu Ala Asp 

Leu Ser Leu Val Gly Cys Tyr Asn Leu Ser Phe Ile Pro Glu Gly Lys 

Arg Ser Gln Leu Leu Glu Ser Ala Lys Lys Asn Leu Arg Gly Met 

Ala Phe Phe Gly Leu Thr Glu Phe Gln Arg Lys Thr Gln Tyr Leu Phe 

Glu Arg Thr Phe Asn Leu Lys Phe Ile Arg Pro Phe Met Gln Tyr Asn 

Ser Thr Arg Ala Gly Gly Val Glu Val Gly Glu Asp Thr Ile Arg Arg 

Ile Glu Glu Leu Asn Asp Leu Asp Met Gln Leu Tyr Asp Tyr Ala Arg 

Asp Leu Phe Gln Gln Arg Tyr Gln Tyr Lys Arg Gln Leu Glu Arg Arg 

Gln Gln Arg Leu Arg Ser Arg Glu Glu Arg Leu His Arg Ala Lys 

Glu Ala Pro Pro Arg Gly Asp Thr Glu Glu Pro Gly Arg Val Pro Thr 

Glu Asp Tyr Met Ser His Ile Ile Glu Lys Trp

405 410

<210> 8	
<211> 39	
<212> ADN	
<213> Sus scrofa	
<400> 8	39
gaccacgcgt atcgatgtcg acttttttt tttttttv	
<210> 9	
<211> 33	
<212> ADN	
<213> Sus scrofa	
<400> 9	33
ggaatteete gagageagga acgtggaaag gag	_
<210> 10	
<211> 22	
<212> ADN	
<213> Sus scrofa	
<400> 10	22
gaccacgcgt atcgatgtcg ac	
<210> 11	
<211> 17	
<212> ADN <213> Sus scrofa	
<z13> Sus scrota</z13>	
<400> 11	17
gcagcagcca cgtcggg	
<210> 12	
<211> 20	
<212> ADN	
<213> Sus scrofa	
<400> 12	20
tcagtgycag tcraatgttc	

<210> 13 <211> 18 <212> ADN	
<213> Sus scrofa	
<400> 13	18
cggngaccgc ctnatcag	
<210> 14	
<211> 20	
<212> ADN	
<213> Sus scrofa	
<400> 14	20
tcagtgycag tcraatgttc	
<210> 15	
<211> 27	
<212> ADN	
<213> Sus scrofa	
<400> 15	27
attctagagg ccgaggcggc cgacatg	
<210> 16	
<211> 19 <212> ADN	
<213> Sus scrofa	
<400> 16	19
gcaccccag atcgacccc	
010: 17	
<210> 17	
<211> 23 <212> ADN	
<213> Sus scrofa	
<400> 17	23
caaactcctc aataaactgc acg	
<210> 18	
7210- 10	

<211> 48

<212> ADIN <213> Sus scrofa	
<400> 18 ggggacaagt ttgtacaaaa aagcaggctc agcatggccg cgctgctc	48
<210> 19	
<211> 52	
<212> ADN <213> Sus scrofa	
(Z13) Bus 5010 and	
<400> 19	52
gggaccactt tgtacaagaa agctgggttt agtgccagtc aaatgttctg cc	
,	
<210> 20 <211> 19	
<211> 19 <212> ADN	
<213> Sus scrofa	
<400> 20	19
agatgactgg tcgggctgc	
<210> 21	•
<210> 21 <211> 23	
<212> ADN	
<213> Sus scrofa	
<400> 21	23
caatgatrtg gctcatgtag tcc	
<210> 22	
<211> 25	
<212> ADN	
<213> Sus scrofa	
<400> 22	25
atggttgagc gcgccagcaa gttcg	
<210> 23	
<211> 24	
<212> ADN	
<213> Sus scrofa	

ggttattggc caggttgtag gggc	24
<210> 24	
<211> 28	
<212> ADN	
<213> Sus scrofa	
<400> 24	28
attctagagg ccgaggcggc cgacatgt	
<210> 25	
<211> 18	
<212> ADN	
<213> Sus scrofa	
<400> 25	18
ggacctcttc cagcagcg	10
<210> 26	
<211> 21	
<212> ADN	
<213> Sus scrofa	
<400> 26	21
gctatcagta caagcggcag c	-
<210> 27	
<211> 16	
<212> ADN	
<213> Sus scrofa	
<400> 27	16
ccaggctcag ccccgg	
<210> 28	
<211> 39	
<212> ADN	
<213> Sus scrofa	
<400> 28	39
gaccacgcgt atcgatgtcg actttttttt tttttttv	

<210> 29	
<211> 23	
<212> ADN	
<213> Sus scrofa	
<400> 29	22
ggcaatgtcg acctccctac aac	23
<210> 30	
<211> 17	
<212> ADN	
<213> Sus scrofa	
<400> 30	
teageceegg geeegeg	17
teageteegg geoogeg	
<210> 31	
<211> 23	
<211> 23 <212> ADN	
<213> Sus scrofa	
<213> Sus sciola	
<400> 31	23
ctccctacaa cccgaattcc tac	
220 20	
<210> 32	
<211> 19	
<212> ADN	
<213> Sus scrofa	
<400> 32	19
gcccgcgtac tggtagagg	
<210> 33	
<211> 56	
<212> ADN	
<213> Sus scrofa	
<400> 33	56
ggggacaagt ttgtacaaaa aagcaggctt aggacaatgg tgacacatgc ggcggc	
<210> 34	
<211> 55	

<212> ADN

<213> Sus scrofa

<400> 34

ggggaccact ttgtacaaga aagctgggtc ctaccacttc tcgatgatgt ggctc

55